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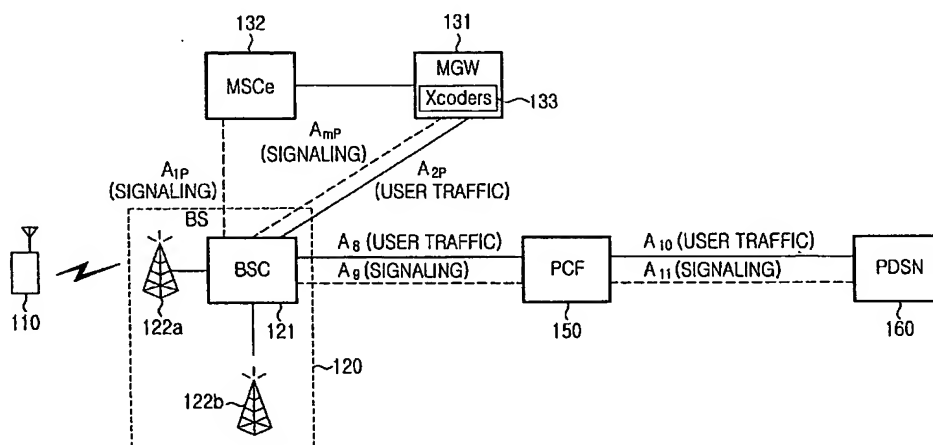
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(54) Title: METHOD AND SYSTEM FOR MULTIPLEXING AND TRANSMITTING SIGNALING MESSAGE AND SUPPLEMENTARY DATA IN A MOBILE COMMUNICATION SYSTEM



(57) Abstract: Disclosed is a method and system for multiplexing and transmitting a signaling message and supplementary data in a mobile communication system including a media gateway using packet-based transmission and a base station controller. Using Dim-and-Burst (DB) and Blank-and-Burst (BB) newly proposed as the media gateway includes a vocoder, the base station controller requests the media gateway to decrease a voice data rate during voice data transmission to the media gateway in order to multiplex a signaling message and supplementary data and transmit the multiplexed data to a mobile station. Then the vocoder in the media gateway decreases the data rate, thereby efficiently transmitting a signaling message and supplementary data together with voice data.